

What is claimed is:

1. A lie-down massager, comprising:
 - a) a base frame having an elongated top panel,
wherein an elongated top opening is formed
centrally and lengthwisely through the
elongated top panel;
 - b) a rider provided below the elongated top panel
of the base frame to make a horizontally
reciprocal movement relative to the base frame;
 - c) a lifter liftedly engaged to the rider to make
a vertically reciprocal movement relative to
the rider;
 - d) a massage member fixed downwardly to the lifter,
wherein first and second supports are
horizontally aligned along a top portion of the
massage member;
 - e) means for allowing the first and second
supports to repeatedly approach to and distance
from each other within the elongated opening;
 - f) massage bumps attached atop the first and
second supports; and
 - g) a pad covering the massage bumps and the
elongated opening of the base frame.

2. The lie-down massager of claim 1 wherein the means comprises:
- a) a gear shaft rotatably engaged to the massage member and partitioned to first and second halves respectively threaded symmetrical to each other such that the first support carried on the first half either approaches to or distances from the second support carried on the second half of the gear shaft in accordance with a rotating direction of the gear shaft; and
- b) a first motor connected to the gear shaft to control the rotation of the gear shaft.
- 15 3. The lie-down massager of claim 2 wherein the first and second supports repeatedly approach to and distance from each other in perpendicular to the horizontally reciprocal movement of the rider.
- 20 4. The lie-down massager of claim 1 wherein the vertical reciprocation of the lifter is implemented by a gear-motor application.

5. The lie-down massager of claim 1 wherein the vertical reciprocation of the lifter is implemented by a gear-chain mechanism powered by a second motor.
- 5 6. The lie-down massager of claim 1 wherein the vertical reciprocation of the lifter is implemented by a cam-motor application.
7. The lie-down massager of claim 1 wherein the message
10 bumps are each formed in hemisphere.
8. The lie-down massager of claim 1 wherein the message bumps are partitioned to first and second pairs, wherein the first pair message bumps are formed atop
15 the first support and the second pair message bumps are formed atop the second support, wherein said each pair bumps are aligned parallel to the direction of the rider reciprocation.
- 20 9. The lie-down massager of claim 1 wherein the message bumps each include a heater, wherein the heater is a heating lamp generating heat and infrared rays.

10. The lie-down massager of claim 1 further comprising
a heating member spread in the top panel of the base
frame.

5 11. A lie-down massager, comprising:

- a) a base frame having an elongated top panel,
wherein an elongated top opening is formed
centrally and lengthwisely through the
elongated top panel;
- 10 b) a rider provided below the elongated top panel;
- c) a pair of pulleys linked by a rope and
respectively mounted in a front end portion and
a rear end portion of the base frame, wherein a
predetermined portion of the rope is fixedly
15 attached to the rider so that the pulley
rotation enables the rider to generate a
horizontally reciprocal movement along the
elongated top opening;
- d) a lifter liftedly engaged to the rider to make
20 a vertically reciprocal movement relative to
the rider;
- e) a massage member fixed downwardly to the lifter,
wherein first and second supports are
horizontally aligned along a top portion of the
25 massage member;

- f) means for allowing the first and second supports to repeatedly approach to and distance from each other within the elongated opening;
- g) massage bumps attached atop the first and second supports; and
- h) a pad covering the massage bumps and the elongated opening of the base frame.

12. The lie-down massager of claim 11 further comprising:

- a) a pair of roller coasters parallel to each other and attached to the base frame, wherein the roller coasters each have a substantially waved top surface; and
- b) a coasting member liftedly engaged between the lifter and the rider, wherein a coaster guide roller is formed outwardly extending from each side surface of the coasting member, wherein the coaster guide roller enables the coasting member to make a roller coasting movement on and along the waved top surfaces of the roller coasters.

13. The lie-down massager of claim 12 further comprises:

- a) elongated guides downwardly extending from the coasting member; and
- b) guide bushes upwardly formed on the rider to
5 releasably receive the elongated guides so as
to stabilize the roller coasting movement of
the coasting member along the roller coasters
and the lifting of the coasting member from the
rider.

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14. The lie-down massager of claim 11 wherein the means comprises:

- a) a gear shaft rotatably engaged to the massage
member and partitioned to first and second
15 halves respectively threaded symmetrical to
each other such that the first support carried
on the first half either approaches to or
distances from the second support carried on
the second half of the gear shaft in accordance
20 with a rotating direction of the gear shaft;
and
- b) a first motor connected to the gear shaft to
control the rotation of the gear shaft.

15. The lie-down massager of claim 11 further comprises
rider guide rollers on each side of the rider,
wherein the rider guide rollers are rollably engaged
in the base frame to guide the horizontally
5 reciprocal movement of the rider.
16. The lie-down massager of claim 11 wherein the waved
top surfaces of the roller coasters each
substantially form a curvature of a human spinal
10 cord.
17. The lie-down massager of claim 11 wherein the first
and second supports repeatedly approach to and
distance from each other in perpendicular to the
15 horizontally reciprocal movement of the rider.
18. The lie-down massager of claim 11 wherein the
vertical reciprocation of the lifter is implemented
by a gear-motor application..
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19. The lie-down massager of claim 11 wherein the
vertical reciprocation of the lifter is implemented
by a gear-chain mechanism powered by a second motor.

20. The lie-down massager of claim 11 wherein the vertical reciprocation of the lifter is implemented by a cam-motor application.

5 21. The lie-down massager of claim 11 wherein the message bumps are each formed in hemisphere.

22. The lie-down massager of claim 11 wherein the message bumps are partitioned to first and second
10 pairs, wherein the first pair message bumps are formed atop the first support and the second pair message bumps are formed atop the second support, wherein said each pair bumps are aligned parallel to the direction of the rider reciprocation.

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23. The lie-down massager of claim 11 wherein the message bumps each include a heater, wherein the heater is a heating lamp generating heat and infrared rays.

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24. The lie-down massager of claim 11 further comprising a heating member spread in the top panel of the base frame.

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25. A lie-down massager, comprising:

- a) a base frame having an elongated top panel,
wherein an elongated opening is formed
centrally and lengthwisely through the
5 elongated top panel;
- b) a pair of rack gears parallel to each other and
provided below the elongated top panel;
- c) a rider having a roller gear perpendicular to
the rack gears, wherein the roller gear is
10 rotatably mounted on the rack gears to allow
the rider to make a horizontally reciprocal
movement along the rack gears, wherein the
rider is maintained below the elongated top
panel;
- 15 d) a lifter liftedly engaged to the rider to make
a vertically reciprocal movement relative to
the rider;
- e) a massage member fixed downwardly to the lifter,
wherein first and second supports are
20 horizontally aligned along a top portion of the
massage member;
- f) means for allowing the first and second
supports to repeatedly approach to and distance
from each other within the elongated opening;

- g) message bumps attached atop the first and second supports; and
- h) a pad covering the message bumps and the elongated opening of the base frame.

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26. The lie-down massager of claim 25 further comprising:

- a) a pair of roller coasters parallel to each other and attached to the base frame, wherein
10 the roller coasters each have a substantially waved top surface; and
- b) a coasting member liftedly engaged between the lifter and the rider, wherein a coaster guide roller is formed outwardly extending from each
15 side surface of the coasting member, wherein the coaster guide roller enables the coasting member to make a roller coasting movement on and along the waved top surfaces of the roller coasters.

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27. The lie-down massager of claim 26 further comprises:

- a) elongated guides downwardly extending from the coasting member; and
- b) guide bushes upwardly formed on the rider to
25 releasably receive the elongated guides so as

to stabilize the roller coasting movement of
the coasting member along the roller coasters
and the lifting of the coasting member from the
rider.

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28. The lie-down massager of claim 25 wherein the means
comprises:

- 10 a) a gear shaft rotatably engaged to the massage
member and partitioned to first and second
halves respectively threaded symmetrical to
each other such that the first support carried
on the first half either approaches to or
distances from the second support carried on
the second half of the gear shaft in accordance
15 with a rotating direction of the gear shaft;
and
b) a first motor connected to the gear shaft to
control the rotation of the gear shaft.

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29. The lie-down massager of claim 25 further comprises
rider guide rollers on each side of the rider,
wherein the rider guide rollers are rollably engaged
in the base frame to guide the horizontally
25 reciprocal movement of the rider.

30. The lie-down massager of claim 25 wherein the waved
top surfaces of the roller coasters each
substantially form a curvature of a human spinal
5 cord.

31. The lie-down massager of claim 25 wherein the first
and second supports repeatedly approach to and
distance from each other in perpendicular to the
10 horizontally reciprocal movement of the rider.

32. The lie-down massager of claim 25 wherein the
vertical reciprocation of the lifter is implemented
by a gear-motor application..
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33. The lie-down massager of claim 25 wherein the
vertical reciprocation of the lifter is implemented
by a gear-chain mechanism powered by a second motor.

20 34. The lie-down massager of claim 25 wherein the
vertical reciprocation of the lifter is implemented
by a cam-motor application.

35. The lie-down massager of claim 25 wherein the
25 massage bumps are each formed in hemisphere.

36. The lie-down massager of claim 25 wherein the
message bumps are partitioned to first and second
pairs, wherein the first pair message bumps are
5 formed atop the first support and the second pair
message bumps are formed atop the second support,
wherein said each pair bumps are aligned parallel to
the direction of the rider reciprocation.
- 10 37. The lie-down massager of claim 25 wherein the
message bumps each include a heater, wherein the
heater is a heating lamp generating heat and
infrared rays.
- 15 38. The lie-down massager of claim 25 further comprising
a heating member spread in the top panel of the base
frame.